



















	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: IMO 06-51
					Rev. No.: 3
Manufacturer name/address/ Web page:	Industria Metallurgica ODOBEZ s.r.l. Via Degli Aceri, 17 – 23818 Pasturo (LC) – Italy http://www.odobez.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	ASTM A182 F51 – UNS S31803 - MDS D44, Revision 6.				
Manufacturing Summary doc. No.:	FRO-02-51			Rev. No.: 5	
Products and manufacturing process(es):	Forged Rounds Production route No. FRO-02-51				
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> Heat treatment by BTT s.r.l. Località Fornaci (BS) Italy: Use of furnace Mizar No. 4 acc. to procedure Nr. IO66P7.5.1-02. Use of furnace Atlante 2 acc. to procedure Nr. P.37.D Forgings shall be machined as close as possible to final shape prior to quality heat treatment. 				
Other information:	<ul style="list-style-type: none"> Tests performed by S.M.T. s.r.l. Laboratory – Pozzo d'Adda (MI). Test location plan No. 243. S.M.T. Tests report: RP-91133. Verification of H.T. Procedure performed on 02/10/2018 for Mizar No. 4 on HOLD status until completed maintenance/upgrade¹⁾. Verification of H.T. Procedure performed on 13/10/2021 for Atlante 2 				
Qualification expires:	24th May 2027				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness [mm]	Qualified thickness [mm]	Test piece weight [kg]	Qualified weight [kg]
Forged Rounds	RP-91133	305	305	385	All
Qualification/acceptance signatures					
Manufacturer:  Industria Metallurgica ODOBEZ s.r.l. Pasturo – LC – Italy	Prepared by/Date:   Denis De Martini Quality Control Dept. 24/05/2022		Checked by/Date:  Giovanni Odobez Managing Director 24/05/2022		
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. <i>This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.</i>					
Qualified/Accepted by (company name /address): Vebjørn Andresen, Principal Engineer, M.Sc., IWE DNV, 1363 Høvik, Norway			Signature/Date:		

¹⁾ The Mizar No. 4 furnace HOLD can be removed after DNV has witnessed that the furnace and handling equipment works properly.

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: IMO 01-51
					Rev. No.: 0
Manufacturer name/address/ Web page:	Industria Metallurgica ODOBEZ s.r.l. Via Degli Aceri, 17 – 23818 Pasturo (LC) – Italy http://www.odobez.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	ASTM A182 F51 – UNS S31803 – MDS D44, Revision 6.				
Manufacturing Summary doc. No.:	FD-01-51			Rev. No.: 1	
Products and manufacturing process(es):	Forged Discs Production route No. FD-01-51				
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> Heat treatment by BTT s.r.l. Località Fornaci (BS) Italy: Use of furnace Atlante 2 acc. to procedure Nr. P.37.E Forgings shall be machined as close as possible to final shape prior to quality heat treatment. 				
Other information:	<ul style="list-style-type: none"> Tests performed by S.M.T. s.r.l. – Pozzo d’Adda (MI) – Italy. Test location plan No. 345 Rev. 0. S.M.T. Tests report: RP-127803 Verification of H.T. Procedure performed on 13/10/2021 for Atlante 2 				
Qualification expires:	18th July 2029				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness [mm]	Qualified thickness [mm]	Test piece weight [kg]	Qualified weight [kg]
Forged Discs	RP-127803	430	430	537	All
Qualification/acceptance signatures					
Manufacturer:  Industria Metallurgica ODOBEZ s.r.l. Pasturo – LC – Italy	Prepared by/Date:  Denis De Martini Technical Dept. 18/07/2024		Checked by/Date:  Giovanni Odobez Managing Director 18/07/2024		
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. <i>This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.</i>					
Qualified/Accepted by (company name /address): DNV Veritasveien 1 1363 Høvik, Norway			Signature/Date:  Digitally signed by Fredrik Rosenqvist Date: 2024.09.27 12:54:06 +02'00'		

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: IMO 02-51	
	Rev. No.: 0					
Manufacturer name/address/ Web page:	Industria Metallurgica ODOBEZ s.r.l. Via Degli Aceri, 17 – 23818 Pasturo (LC) – Italy http://www.odobez.com					
Reference standard	NORSOK M-650, Edition 4					
Material designation and MDS No.:	ASTM A182 F51 – UNS S31803 – MDS D44, Revision 6.					
Manufacturing Summary doc. No.:	FPB-02-51				Rev. No.: 1	
Products and manufacturing process(es):	Forged Plates / Blocks Production route No. FPB-02-51					
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> Heat treatment by BTT s.r.l. Località Fornaci (BS) Italy: Use of furnace Atlante 2 acc. to procedure Nr. P.37.E Forgings shall be machined as close as possible to final shape prior to quality heat treatment. 					
Other information:	<ul style="list-style-type: none"> Tests performed by S.M.T. s.r.l. – Pozzo d’Adda (MI) – Italy. Test location plan No. 346 Rev. 0 S.M.T. Tests report: RP-127804 Verification of H.T. Procedure performed on 13/10/2021 for Atlante 2 					
Qualification expires:	18th July 2029					
Tested and qualified thickness and weight						
Products and manufacturing process(es):	Test record No.	Tested thickness [mm]	Qualified thickness [mm]	Test piece weight [kg]	Qualified weight [kg]	
Forged Plates / Blocks	RP-127804	430	430	813	All	
Qualification/acceptance signatures						
Manufacturer:  Industria Metallurgica ODOBEZ s.r.l. Pasturo – LC – Italy	Prepared by/Date:  Denis De Martini Technical Dept. 18/07/2024		Checked by/Date:  Giovanni Odobez Managing Director 18/07/2024			
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. <i>This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.</i>						
Qualified/Accepted by (company name /address): DNV Veritasveien 1 1363 Høvik, Norway			Signature/Date:  Digitally signed by Fredrik Rosenqvist Date: 2024.09.27 13:26:46 +02'00'			

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: IMO 03-51	
	Rev. No.: 0					
Manufacturer name/address/ Web page:	Industria Metallurgica ODOBEZ s.r.l. Via Degli Aceri, 17 – 23818 Pasturo (LC) – Italy http://www.odobez.com					
Reference standard	NORSOK M-650, Edition 4					
Material designation and MDS No.:	ASTM A182 F51 – UNS S31803 – MDS D44, Revision 6.					
Manufacturing Summary doc. No.:	FRB-03-51				Rev. No.: 1	
Products and manufacturing process(es):	Forged Rings / Bushes Production route No. FRB-03-51					
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> Heat treatment by BTT s.r.l. Località Fornaci (BS) Italy: Use of furnace Atlante 2 acc. to procedure Nr. P.37.E Forgings shall be machined as close as possible to final shape prior to quality heat treatment. 					
Other information:	<ul style="list-style-type: none"> Tests performed by S.M.T. s.r.l. – Pozzo d’Adda (MI) – Italy. Test location plan No. 347 Rev. 0. S.M.T. Tests report: RP-128238 Verification of H.T. Procedure performed on 13/10/2021 for Atlante 2 					
Qualification expires:	30th July 2029					
Tested and qualified thickness and weight						
Products and manufacturing process(es):	Test record No.	Tested thickness [mm]	Qualified thickness [mm]	Test piece weight [kg]	Qualified weight [kg]	
Forged Rings / Bushes	RP-128238	300	300	1015	All	
Qualification/acceptance signatures						
Manufacturer:  Industria Metallurgica ODOBEZ s.r.l. Pasturo – LC – Italy	Prepared by/Date:   Denis De Martini Technical Dept. 30/07/2024		Checked by/Date:  Giovanni Odobez Managing Director 30/07/2024			
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. <i>This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.</i>						
Qualified/Accepted by (company name /address): DNV Veritasveien 1 1363 Høvik, Norway			Signature/Date:  Digitally signed by Fredrik Rosenqvist Date: 2024.09.27 13:54:18 +02'00'			